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Abstract

The present invention relates to a device (10) for receiving signals in a wireless orthogonal frequency division multiplex (OFDM) system and to a channel estimation method in such a system. The data symbols and pilot symbols are transmitted in frequency subcarriers and timeslots, whereby pilot symbols are transmitted in a continuous stream within at least one frequency subcarrier. A channel estimation for a data symbol is performed on the basis of received pilot symbols using a filter including a common phase error correction value from the continuous stream pilot symbol in the same timeslot as the data symbol to be channel estimated.

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The present invention thereby enables a correct and efficient channel estimation including a common phase error correction to be performed.

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(Fig. 3)